







The 8 "Ates"
Animals have eight great traits to help them tolerate winter.

Outdoor Christmas
Check out these holiday goodies to get you outside.

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Visit www.xplormo.org for cool videos, sounds, photos, fun facts and more!



GOVERNOR Jeremiah W. "Jay" Nixon

#### CONSERVATION COMMISSION

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> DIRECTOR Robert L. Ziehmer

#### XPLOR STAFF

David Besenger Bonnie Chasteen

Chris Cloyd Peg Craft

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Chris Haefke

Karen Hudson

Regina Knauer

Kevin Lanahan

Kevin Muenks

Noppadol Paothong Marci Porter

Mark Raithel

Laura Scheuler

Matt Seek

Tim Smith

**David Stonner** 

Nichole LeClair Terrill Stephanie Thurber

Alicia Weaver

Cliff White

Kipp Woods

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We recycle. You can, too! Share *Xplor* with friends.





Bald eagle

on't stay inside when the snow gets to blowing.
Get out to discover nature coming and going. Here are a few ideas to keep you outside in December and January.

## Encounter an eagle.

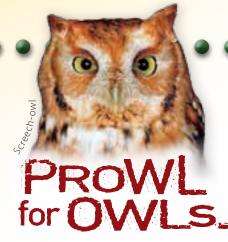
Every winter, thousands of bald eagles follow migrating flocks of waterfowl to Missouri. With binoculars and some searching, you can find eagles perched in trees along rivers, lakes and wetlands. The easiest way to see our national symbol, though, is to attend Eagle Days. There you'll get an upclose look at captive eagles and peer through telescopes to watch wild eagles soar. For details, visit www.mdc.mo.gov/node/3478.

Sleep in THE SNOW.

Don't stow
your tent when
snowflakes start to fall. With
some planning and the right gear,
winter camping can be really cool. Dress
in layers, wear warm, waterproof boots and
pack plenty of snacks to fuel your body's furnace.
If there's snow on the ground, use a sled to haul
your gear. For more tips to keep your teeth from
chattering and your camp comfortable, go to
www.xplormo.org/node/10545.

# Go raccoon hunting.

Imagine this: You're standing in the pitch-black woods on a cold winter's night. Suddenly, the silence is shattered by a dog barking. You flip on your headlamp and plunge through the trees toward the sound—one of your hounds is on the trail of a raccoon! To experience this thrill firsthand, tag along with a 'coon hunter. For a rundown on raccoon hunting, visit www.xplormo.org/node/10547.



Hoo's hiding out there in the dark? The longest night of the year, December 21, is the perfect time to find out. Bundle up, pack a thermos of hot chocolate and head out after sunset for an owl prowl. If you give a hoot, check out www.xplormo.org/node/10548 to learn about Missouri's most common owls and hear their calls.

Stock your fly box.

There's no reason to stay indoors when school's out for a snow day. But, when you're tired of sledding, ice skating, snowball fights and building snowmen, put your time inside to good use: Tie some flies to stock up your vest for trout fishing. Instructions for tying a woolly bugger, one of the world's fishiest flies,

can be found at www.xplormo.org/node/3560.

Recycle your Christmas tree.

A cut Christmas tree is a gift that keeps on giving for winter birds. After the holidays, strip your tree of ornaments and stash it under a bird feeder. It will offer birds shelter when the wind blows and a place to escape to when the neighbor's cat comes prowling. Treat your feathered friends to some sweet eats by decorating the tree with popcorn strings or pine cones smeared with peanut butter.



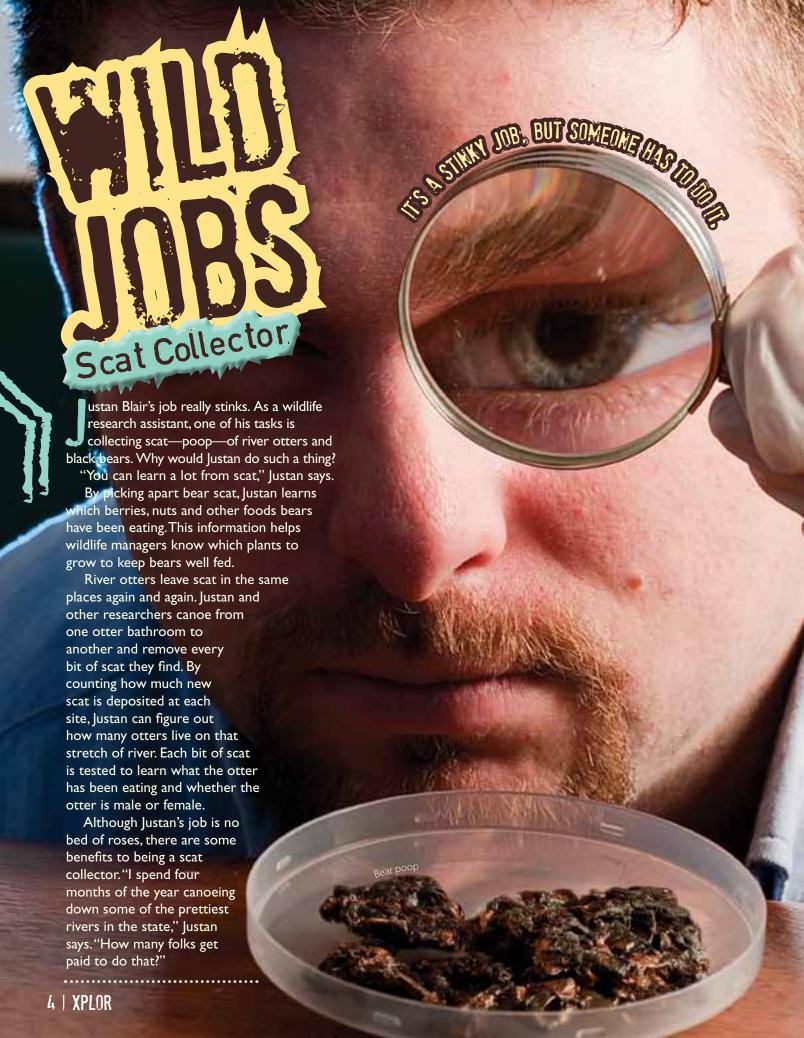
to keep their New Year's resolutions, goals they hope to achieve in the coming year. You can make a resolution that's fun and easy to keep. Just promise to play outside more in 2011. We'll even help. Check out Xplor's weekly You Discover blog at www.xplormo.org for ideas and inspiration to get you off the

Start your year with a BANG.

couch and out the door.

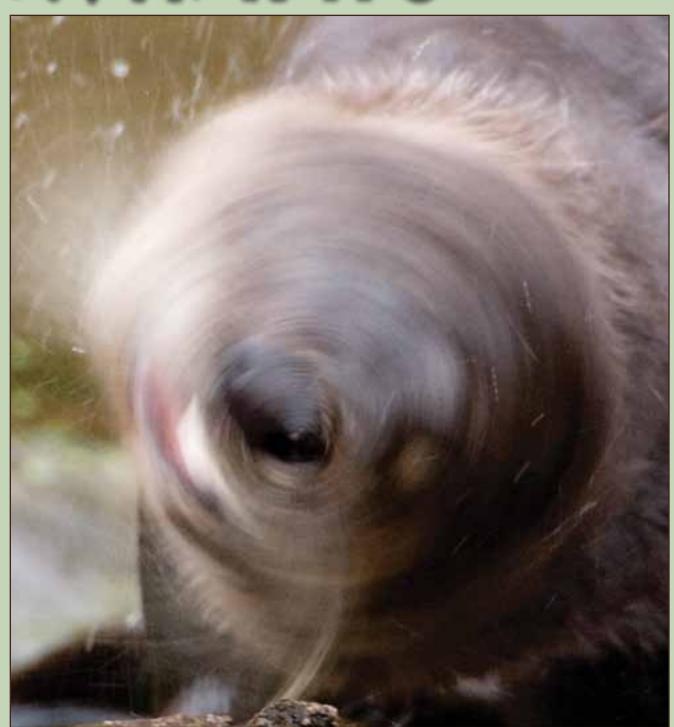
The late portion of the youth firearms deer season is January I-2. If you're at least 6 but no older than 15 and have an unfilled firearms deer-hunting permit, you can participate. Head to www.mdc.mo.gov/node/3861 for details, then grab an adult and head to the woods. After all, there's no better way to start 2011 than by sitting in a deer stand.

Looking for more ways to have fun outside? Find out about Discover Nature programs in your area at www.xplormo.org/xplor/stuff-do/all-events.





**DON'T KNOW?** Jump to Page 16 to find out.



I shimmy and shake but not when I dance. I wear a waterproof coat even when it's sunny.

I slide in the snow but not on a sled. You otter know the answer to this one.



For winter camping tips, paddle over to www.xplormo.org/node/10545.



elsey Brandt waits, shotgun ready, poised for action. A few feet away, her sister's beagle, Snoopy, tunnels through a brush pile. Kelsey can hear the dog snuffle, sucking every molecule of scent into her snout like a furry, four-legged vacuum. The dog's tail wags in overdrive, a white-tipped blur of nervous energy. Suddenly, Snoopy's tail stops.

"Get ready," Kelsey's dad says. "Snoop's got something." Kelsey lifts the shotgun to her shoulder and puts her finger on the safety. Is there a cottontail hiding somewhere in the brush?

#### cearing up

Earlier that morning, Kelsey and her sister, Lindsey Jo, pull on their rabbit-hunting clothes. Rabbits love briars and brambles. To avoid getting chewed up, the girls tug on thick jeans and boots.

Although it's warm today, Kelsey has been on some cold rabbit hunts. For those she recommends layers of clothes and a stocking hat. Lindsey Jo recommends snuggling with Snoopy. Regardless of the weather, the girls and their dad wear orange vests so they can be seen by each other and any other hunters who may be out.

While their dad gets the gun ready, Kelsey loads a backpack with snacks, and Lindsey Jo sneaks in a few dog treats. For rabbit hunting, Kelsey uses a shotgun, a firearm that shoots a cloud of pellets. The pellet cloud makes it easier to hit a bounding rabbit.







#### Super Shooper

The girls meet Snoopy in the garage. "We named her Snoopy," Lindsey Jo says, "because she's always snooping and sniffing everything."

With a nose 1,000 times more sensitive than a human's, beagles can make sense of scents we can't even sense. Their small size helps them weave and tunnel through brush. And, being low to the ground keeps their nose right where it needs to be—at ground level to sniff out a rabbit's trail.

After lots of licking and tail wagging from Snoopy, Lindsey Jo clips a leash to the dog's collar, and they head out to hunt their 40-acre farm in Osage County.

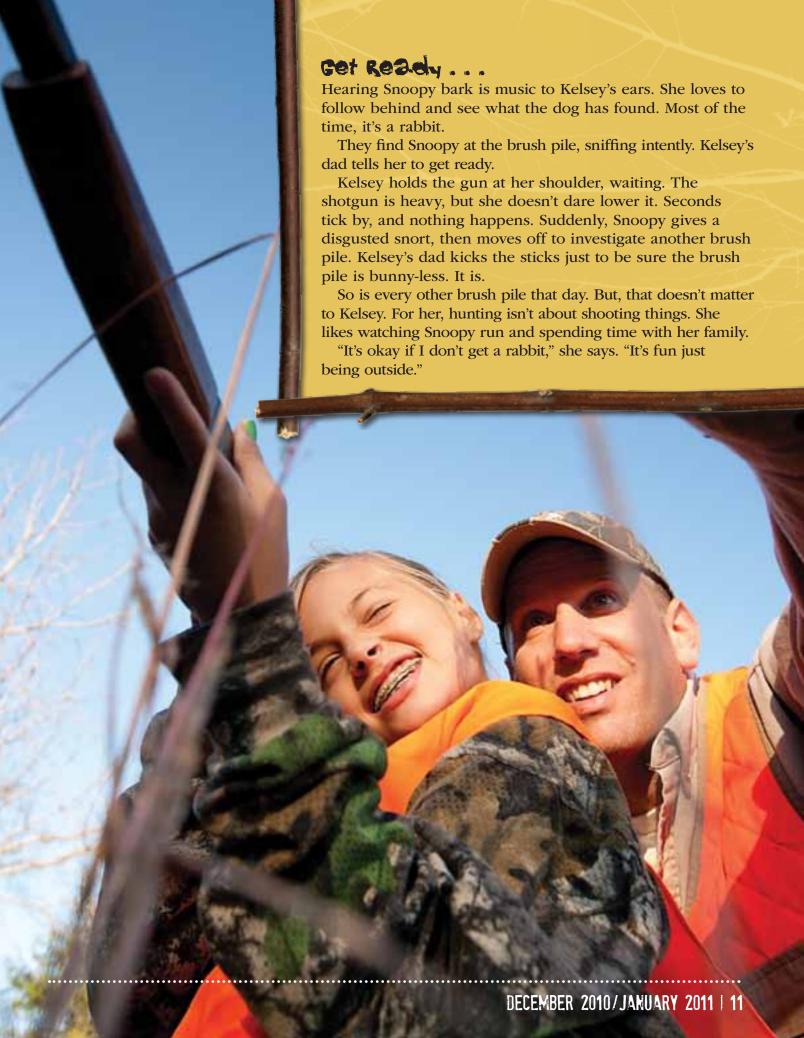
#### on the mail of cottontails

"Hunt 'em up, Snoop," Kelsey's dad says. The beagle tears off, snuffling and wagging through the grass. The Brandt family follows, trying to keep up as best they can.

Kelsey carries the shotgun. For safety, she walks a few steps ahead of Lindsey Jo and her dad. Kelsey always keeps the gun pointed in a safe direction. She keeps the gun's safety on. And, her finger stays off the trigger until she's ready to shoot.

Rabbits live life on the edge, preferring places where two kinds of habitat come together. Brushy fencerows next to crop fields are good places to hunt. Briars, blackberry brambles and brush piles often have a bunny or two hiding inside. Clover fields tucked into the woods are rabbit factories.

As the beagle boogies through the brush, she begins to bay, a musical yodel of barking.





### PUPATE

Some insects ride out winter as a pupa (pyoo-puh). Think of a pupa as an insect's teen years—a time when the baby bug changes into an adult. Lots of insects, including this Polyphemus moth, form a cocoon when they pupate. Some even have antifreeze in their bodies to keep them from turning into bugsicles when temperatures drop.

### HIBERNATE

A few animals treat winter like a boring movie—they sleep through it. Chipmunks, skunks and bears take long, deep naps during the worst winter weather. Bats, woodchucks and ground squirrels go even further they hibernate. During hibernation, an animal's temperature drops, and its breathing and heart rate slow way down. If your heart slowed as much as a hibernating ground squirrel's, you'd never wake up!

### EXCAVATE

Voles, mice and shrews excavate tunnels under the snow. The snow hides the furry mammals from hungry predators and acts like a fluffy white blanket, keeping the tunnel much warmer than the air outside. To see how toasty snow can be, build an igloo.

# Critters ASULATE

big puffy coats, but they have something just as good to insulate their bodies against winter's chill: fur and feathers. Foxes and other mammals grow thick fur coats to keep them cozy. Birds fluff up their feathers to trap warm air next to their skin.

Red-tailed hawk

## GENERATE

We use electricity or burn natural gas to generate heat in our houses. Animals, including humans, generate heat from the foods they eat. For animals trying to survive winter, being overweight is great. Not only does extra fat help insulate their bodies, but they also can use the fat to generate heat.

### TERMINATE

Grasshoppers, mosquitoes and several kinds of spiders lay eggs before winter

arrives. The adults die
when the first hard
freeze hits, leaving
the babies to fend for
themselves when they
hatch the following spring.









snow cream. Just follow the recipe below to make this easy, yummy treat.

#### INSTRUCTIONS

- I. Gather 2 cups of fresh, clean snow in a cup. Newly fallen snow is best. Don't pack it in as you would to make a snowball. Let it stay loose and fluffy.
- 2. Pour milk and sugar into the cup.
- 3. Add your choice of flavoring. For vanilla snow cream, add ½ teaspoon of vanilla flavoring. For chocolate snow cream, add about 3 tablespoons of chocolate syrup—more if you really like chocolate. A handful of mini chocolate chips is a yummy addition to either kind.
- 4. Mix well with a spoon. Don't mix too much, though, or your snow cream will get watery. It should have the texture of a thick ice cream shake.
- 5. Enjoy!

- \* 2 cups fresh, clean snow
- \* ¼ cup of cold milk
- I tablespoon sugar
- \* Vanilla flavoring, chocolate syrup or mini chocolate chips

#### **ANSWER TO**

FROM PAGE 6

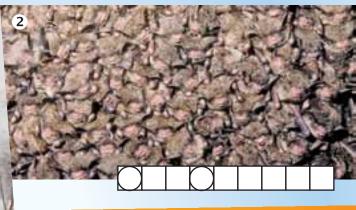
River otters have furry, waterproof

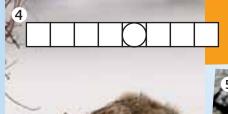
coats that keep them warm while swimming. When otters leave the water, they shimmy and shake to dry off. Otters love to play. They dive for rocks and clamshells in the water. They wrestle with their brothers and sisters. And, if there's snow, otters get a good run, tuck their legs up, and slide over the snow on their tummies.





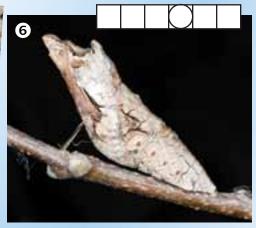
describes what each animal is doing to survive winter's cold weather? Here's a tip: Each word ends in "ate," for example, congregate. If you're stumped, turn to Page 12.





1





TO FINISH THE JOKE, UNSCRAMBLE THE CIRCLED LETTERS IN THE WORDS ABOVE

HOW DO BIRDS KNOW WHEN TO FLY SOUTH FOR WINTER?

THEY WATCH THE F\_\_\_T\_\_R FO\_\_\_C\_S\_

ANSWER TO JOKE: THEY WATCH THE FEATHER FORECAST.

ANSWERS: 1) INSULATE 2) HIBERNATE 3) MIGRATE 4) GENERATE 2) EXCAVATE 6) PUPATE

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FREE TO MISSOURI HOUSEHOLDS



These little red puffballs visit bird feeders throughout winter. Prop up your old Christmas tree nearby to shelter cardinals and other birds from the wind. Perched there in vibrant color, the birds will continue to decorate your tree all winter long.